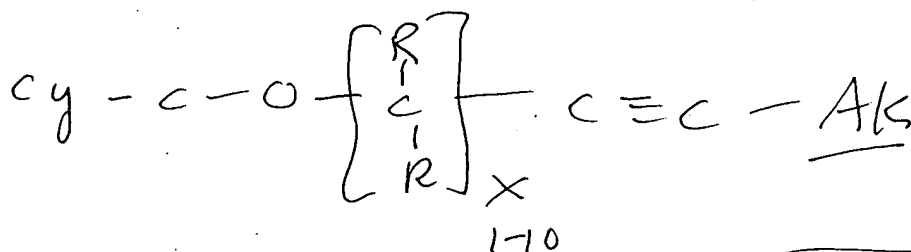
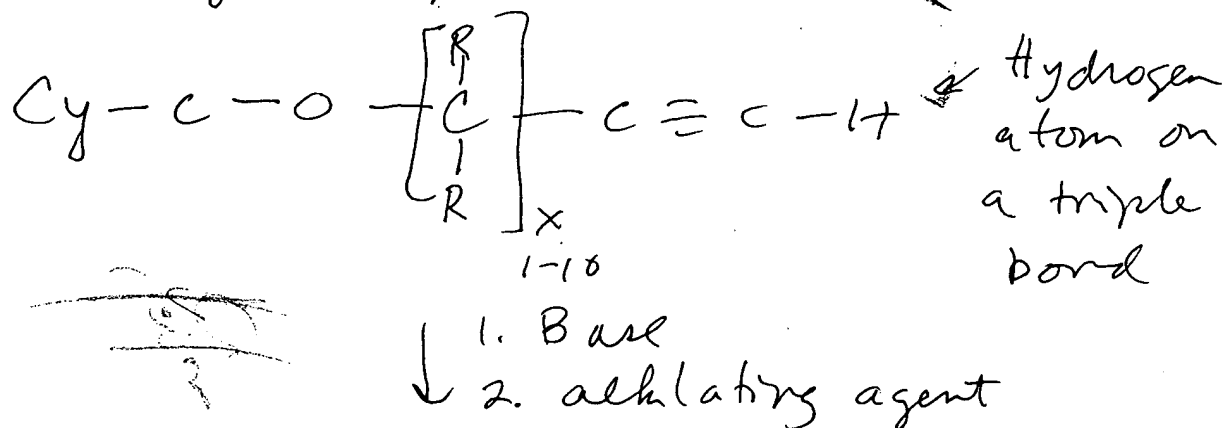


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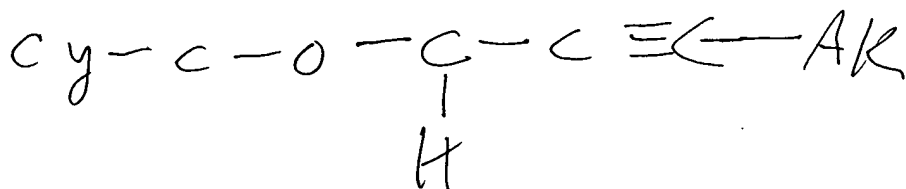
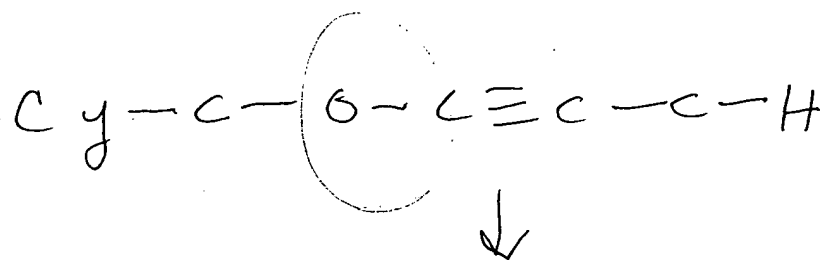
Hector,

I searched 2 versions of this reaction.

I initially interpreted the rxn as:



However, when I pulled applicant's work in Cas react (attached to this sheet), I discovered that the rxn is:



Maybe the translation from French is bad, but I did not get their version of the rxn from reading the document over.

Basically, I searched their version  
of the rxn in CAS REACT &

Reg / CA PLUS. Any ?'s call me

305-4053

Susan

L24 ANSWER 1 OF 1 CASREACT COPYRIGHT 2002 ACS  
 AN 134:266094 CASREACT  
 TI Method for preparing substituted mixed alkynyl ethers  
 IN Jacquot, Roland  
 PA Rhodia Chimie, Fr.  
 SO PCT Int. Appl., 26 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA French  
 IC ICM C07C043-215  
 ICS C07C041-30  
 CC 25-9 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001023338	A1	20010405	WO 2000-FR2704	20000929
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG FR 2798928 A1 20010330 FR 1999-12146 19990929 EP 1216220 A1 20020626 EP 2000-966235 20000929 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
FR 1999-12146		19990929		
WO 2000-FR2704		20000929		
OS MARPAT 134:266094 AB The invention concerns a method for prepg. substituted mixed alkynyl ethers. More particularly, the invention concerns the prepn. of mixed ethers derived from a substituted benzyl alc. and an alkynyl alc. The inventive method for prepg. a substituted mixed benzyl/alkynyl ether from a mixed benzyl/alkynyl ether having a hydrogen atom on the triple bond is characterized in that it consists in reacting a mixed ether derived from a benzyl alc. and an alkynyl alc. having a hydrogen atom on the triple bond with an alkylating agent, in the presence of a neg. ion chem. ionizing reagent. E.g., methylation of [1-(prop-1-ynyloxy)ethyl]-3,4- dimethoxybenzene, prepd. by reaction of 1-[3,4-dimethoxyphenyl]ethan-1-ol with propargyl alc. in presence of HY zeolite, with Me sulfate gave [1-(but-2-ynyloxy)ethyl]-3,4-dimethoxybenzene. ST alkynyl ether prepn IT Zeolite HY RL: CAT (Catalyst use); USES (Uses) (prepn. of mixed alkynyl ethers) IT Ethers, preparation RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation) (prepn. of mixed alkynyl ethers) IT 332112-39-7P RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. of mixed alkynyl ethers) IT 185676-84-0P RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP				

## (Preparation)

IT 107-19-7, Propargyl alcohol 5653-65-6

RL: RCT (Reactant); RACT (Reactant or reagent)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

- (1) Chinoi; WO 9719040 A 1997 CAPLUS
- (2) Chong, J; TETRAHEDRON LETTERS 1986, V27(45), P5445 CAPLUS
- (3) Montedison; FR 2522648 A 1983 CAPLUS
- (4) Rhodia, C; WO 9902475 A 1999 CAPLUS

RX(1) OF 4 A + B ==> C...

Chemical reaction (1) shows the reaction of 1,3-dimethoxy-4-(1-hydroxyethyl)benzene (A) with propargyl alcohol (B) to form 1,3-dimethoxy-4-(1-(prop-1-yn-1-yloxy)ethyl)benzene (C). The reaction is labeled (1) and proceeds with 100% yield.

Chemical structure of product C: 1,3-dimethoxy-4-(1-(prop-1-yn-1-yloxy)ethyl)benzene.

C  
YIELD 100%

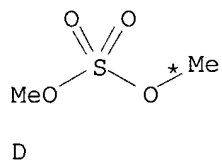
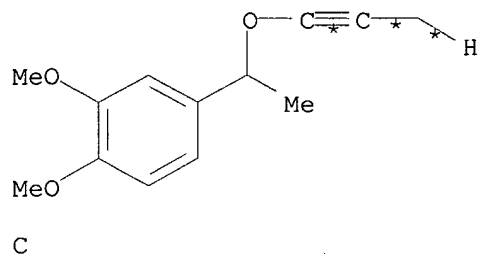
RX(1) RCT A 5653-65-6, B 107-19-7  
PRO C 332112-39-7  
SOL 107-19-7 Propargyl alcohol  
NTE zeolite HY catalyst

RX(2) OF 4 ...C + D ==> E

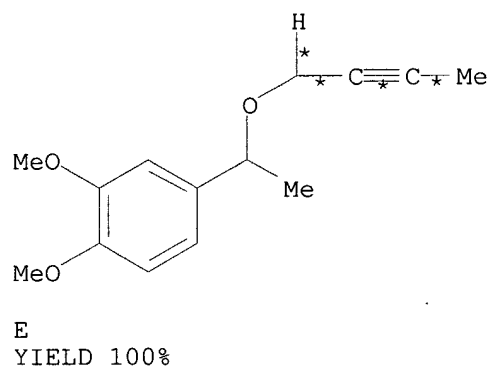
Chemical reaction (2) shows the reaction of 1,3-dimethoxy-4-(1-(prop-1-yn-1-yloxy)ethyl)benzene (C) with dimethyl sulfate (D) to form product E. The reaction is labeled (2).

Searched by Susan Hanley 305-4053

Page 2



(2)  $\longrightarrow$



RX(2) RCT C 332112-39-7

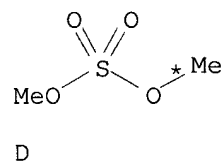
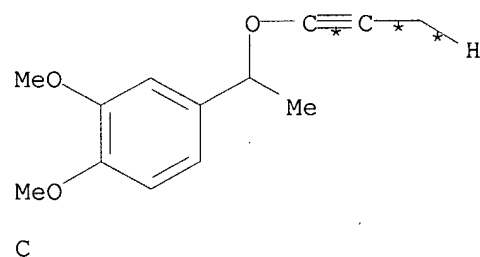
STAGE(1)

RGT F 7782-92-5 NaNH2  
SOL 108-88-3 PhMe

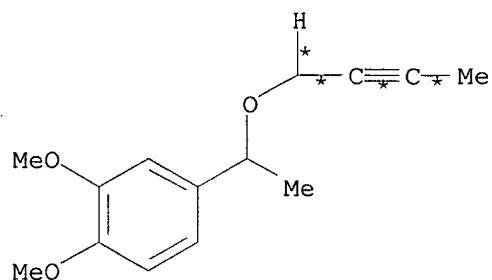
STAGE(2)

RCT D 77-78-1  
PRO E 185676-84-0

RX(3) OF 4 C + D  $\implies$  E



(3)  $\longrightarrow$



E  
YIELD 82%

RX(3) RCT C 332112-39-7

STAGE(1)

RGT H 7440-23-5 Na  
SOL 108-88-3 PhMe

STAGE(2)

RCT D 77-78-1  
PRO E 185676-84-0

=> file stnguide

FILE 'STNGUIDE' ENTERED AT 13:15:24 ON 17 SEP 2002

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Sep 13, 2002 (20020913/UP).

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